RESTRICTED CIRCULATION

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Return to Capacity; Wheat and Fallow Acreages - ENGLAND

L P Smith

1. Examination of the 1968-1969 data shows that linearity in the wheat acreage equation cannot be extrapolated into the lower ranges of early return dates.

The revised equation then becomes:

$$W = 1335 + 700 \log Rw + 50n'$$

2. It is also possible that the "improvement" in fallow acreage was a mathematical illusion and that a more acceptable formula would be:

$$\log F = 2.765 - \tfrac{1}{2} \log Rc.$$

3. Results

		Fallow Acres			Wheat Acres	
Year	Rc	Actual	Estimated	Rw	Actual	Estimated
1959	3.9	351	295	3.7	1825	1733
1960	10.4	180	180	10.6	1987	2053
1961	4.2	285	284	4.4	1716	1785
1962	9.1	160	193	9.4	2127	2066
1963	11.1	205	175	11.8	1823	-
1964	8.5	181	200	9.1	2093	2156
1965	14.7	149	152	15.5	2409	2368
1966	6.0	241	238	6.5	2149	2154
1967	6.0	210	238	6.6	2201	2209
1968	6.7	181	225	7.3	2306	2290
1969	2.3	394	384	2.2	1947	1975

The correlation between log Rc and log F is 0.94; that between log Rw and W - 50n' is 0.95.

Any comments or suggestions on this paper should be referred to the author
Meteorological Office
Bracknell

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